

# EUROPEAN PATENT OFFICE

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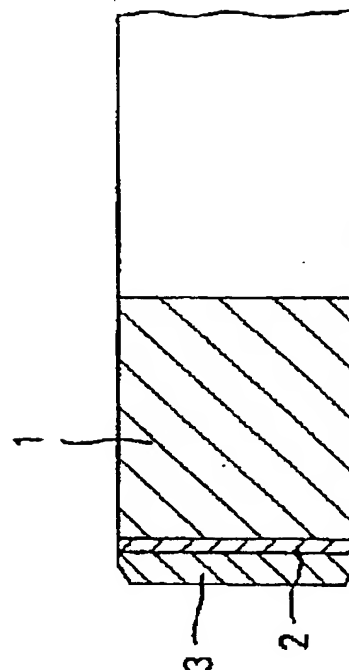
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APPLICANT : RIKEN CORP;

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TITLE : SLIDER



ABSTRACT : PURPOSE: To improve the extent of wear resistance by containing phosphorus in a composite membrane in a piston ring as a second sliding member, in a slider being made up of both first and second sliding members with respective sliding surfaces being made contact, and slidden with each other.

CONSTITUTION: A sliding surface of a cylinder or a first sliding member of a slider is formed by a sprayed layer of an Fe-Mo system consisting in a porous structure and excellent in oil holdability, namely, a sprayed layer made up of Fe in 40-70wt.% and Mo in the rest. Likewise, a composite film layer 3, dispersing a chromium oxide grain of 0.5-10 $\mu$ m in mean grain size in a range of 10-30% in volumn percentage into a ground layer 2 of nickel - phoshor alloy plating made up of phosphorus of 0.2-10wt.% and nickel of the rest, is formed on a sliding surface of a piston ring 1 or a second sliding member sliding on the sliding surface of this first sliding member.

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